

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002405**Date Inspected:** 07-Mar-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Lift 5 East, Lift 5 West, Cross Beam #4, Sub-**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Cross Beam #4

ZPMC performed minor touch up and repairs to external surfaces top-coated with Interfine 979. Minor surface discontinuities such as small sags and runs were being sanded off and touch up by re-application of Interfine 979 Finish coating, concurrent with the Cross beam #4, Suspender Brackets are also being repaired of similar discontinuities.

Lift 5 East

Repairs were performed to previously applied undercoating due to NDT works and heat straightening on the Side Plate Upper Weld seam area across the entire side plate, repairs consisted of complete removal of damaged coatings via abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 undercoat. Also Internal surfaces were repaired via abrasive blasting of damaged previously applied undercoat and rust stain removal from Panel Points 29-30 on the Bottom Plate floor area and "T" Stiffeners and also Panel Point 32-33 East Side Plate and "T" Stiffeners and Interzinc 22 undercoat re-applied.↵↵

Lift 5 West

Repairs were performed to previously applied undercoating due to NDT works and heat straightening on the Side Plate Upper Weld seam area across the entire side plate, repairs consisted of complete removal of damaged coatings via abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 undercoat. Profile amplitude was 72, 74, 78µm. Also the East and West sides as well as areas located at Panel Point

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#29 Upper corner unit NDT areas were repaired as well.

Sub-Assemblies

Base metal surfaces of 37 Traveler Rail Brackets and approximately 391 pieces of Splice Plates and Pipe Support Brackets were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Lift 6 East

Internal weld seam joining segments OBG 6BE/CE were abrasive blasted to base metal and an SSPC SP-10 Condition and Interzinc 22 undercoat applied.

Sub-Assemblies

Testing was performed on undercoated surfaces of Counterweights # 44 & 46 which comprised of MEK and Chloride as well as Pencil Hardness, MEK Rating was observed at not less than 4 rating and Chloride values were 10µs/cm Pencil Hardness passed 2H subsequent "Mist" coat of Interfine 979 was applied to external surfaces.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
